

SYSTEM AND METHOD FOR SECURED DATA TRANSMISSION
WITHIN A WIRELESS COMMUNICATION SYSTEM

ABSTRACT OF THE INVENTION

A system and method are provided for securing data transmission during operation of a wireless networked communication system comprising a base station and one or more remote devices. The base station generates an encryption key, encodes the key as an acoustic signal, and transmits the signal. The acoustic signal is received by all co-located remote devices of the communication system, and decoded to extract the encryption key. Subsequent communication transmissions between and among the base station and the remote device are encrypted using the encryption key to prevent electronic eavesdropping.